

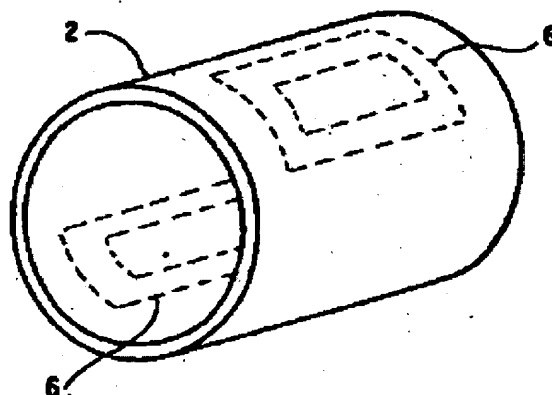
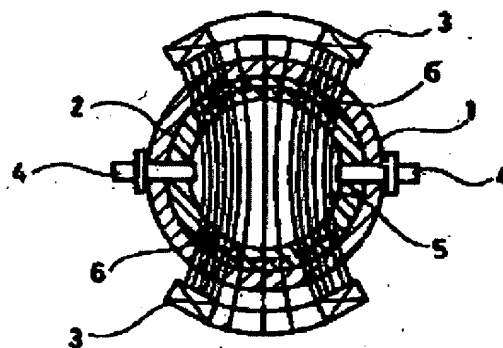
ELECTROMAGNETIC FLOWMETER

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Abstract of JP58213215

PURPOSE:To secure the most effective magnetic field always in spite of the variation of flowing velocity, by burying a magnetic material forming a prescribed magnetic flux distribution on an insulating layer of an inner wall of a measuring pipe. **CONSTITUTION:**A magnetic flowmeter is provided on the way to a main pipe flowing a fluid to be measured and an insulating lining 2 is coated on the inside of a measuring pipe 1. A pair of exciting coils 3 wound around a wire in a saddle frame shape is attached facing each other to the inner circumference face of the pipe 1 with a core and a mount enveloping in the coils 3. Further, a pair of electrodes 4 is inserted into the central part of an axis direction of the pipe 1 facing each other at the position where the water flowing is crossed at right angles to the direction of a magnetic flux 5 formed by the coil 3 in a condition insulating from the pipe 1. A pair of steel plates 6 formed its section in a half circular arc by the steel as a magnetic material is buried by forming monolithically with the lining 2 which is faced each to the position crossing at right angles to the magnetic flux 5 of the coil 3 in the lining 2.



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